DIN EN ISO 6709:2023-01 (E)

Standard representation of geographic point location by coordinates (ISO 6709:2022); English version EN ISO 6709:2022

Contents

Page

Foreword ... **iv**

Introduction ... **vi**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Abbreviated terms and character code notations ... **4**
4.1 Abbreviated terms ... 4
4.2 Character code notations ... 5

5 Conformance ... **5**

6 Geographic point location (GPL) representation ... **5**
6.1 Overview ... 5
6.2 Component representation ... 6
6.3 Coordinate tuple ... 6
6.4 Character string delimiters and terminator notation ... 7
6.5 CRS identifier structure ... 8
6.6 Text string representation ... 10
6.6.1 Background ... 10
6.6.2 Formatting rules for angular measures ... 10
6.6.3 Component structure ... 12

7 Human-readable GPL representation ... **16**
7.1 Overview of human-readable GPL representation ... 16
7.2 General requirements of human-readable GPL representation ... 16
7.3 Formatted examples of human-readable text strings ... 18

Annex A (normative) **Conformance and abstract test suite** ... **20**

Annex B (normative) **Backwards compatible representation of geographic point location** ... **23**

Annex C (informative) **Uniqueness of latitude and longitude coordinates** ... **29**

Annex D (informative) **Latitude and longitude resolution** ... **30**

Annex E (informative) **Changes compared to ISO 6709:2008** ... **31**

Annex F (normative) **Character encodings** ... **33**

Bibliography ... **35**